BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Project : Improvement to Roads and Drains and Other Developmental Works At 407,707,208 Sfs, Major Akshay Girish Kumar Road Yelahanka 4th And 5th Phase And Surrounding Areas In Ward No.01,03 And 04 Of Yelahanka Division Under Amruthnagarothana Grants (Package-04)

1. Improvements to Drains and Footpath at 407,707,208 SF, 5th Phase in Attur Ward No.03 of Yelahanka Sattelite Town Sub Division.
2. Construction of Class Rooms at Yelahanka Government Highschool in Kempegowda Ward No.01
3. Footpath Improvements and drain construction in Major Akshay Girishkumar Road in Yelahanka New Town in Ward No.04 of Yelahanka Satellite Town Sub Division.
4. Improvements to Roads and Footpath from 1st A main Road to 13th B main Road and Surrounding Area Ward No.04 of Yelahanka Sattelite Town Sub Division.
5. Resurfacing of Roads at 4th Phase Yelahanka New Town and Surrounding Areas in Attur Ward No.03 of Yelahanka Sattelite Town Sub Division.

COMBINED ESTIMATE — Estimate Cost(Lakhs):1000.00

Sl. No.	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
1	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead By Mechanical Means - Cement Concrete Grade M-15 & M-20 (P.No. 8, V-III, I.No. 2.8 A -of CSR 2021-22)								
	A.Basic rate	881.00							
	10% AW	88.10							
	Total	**969.10**							
		Cum							
	13th A Main Road(Major Akshay Girishkumar Road)								
	Footpath								
	LHS								
	Ch 216-980		1	734.00	1.50		1101.00		
	RHS								
	Ch 216-980		1	751.00	1.50		1126.50		
	Footpath								
	16th A Main Road (Yelahanka Satellite Town)								
	LHS								
	Ch 0-488		1	460.00	1.90	0.15	131.10		
	1st A Main Road (Yelahanka Satellite Town)								
	BHS								
	Ch 0-205		2	200.00	1.90	0.15	114.00		
							2472.60	**969.10**	**2,396,196.66**
2	Removing and resetting of footpath slab (Approved Rate)								
	(Approved Rate)	235.00							
	10% AW	23.50							
	Sub Total	**258.50**							
		Sqm							
	SLIG Appartment roads								
	Ch 0 - 54 (LHS)		2	54.00	0.90		97.20		
	Ch 0 - 55 (RHS)		2	55.00	0.90		99.00		
	BBMP Park Adj road		2	124.00	0.90		223.20		
	consider 25% damaged and missing						-104.85		

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13th A Main Road(Major Akshay Girishkumar Road)							
LHS							
Ch 216-985		1	739.00	1.20	886.80		
RHS							
Ch 216-985		1	756.00	1.20	907.20		
Considering 15% Missing/Damaged Slab					-269.10		
16th A Main Road (Yelahanka Satellite Town)							
LHS							
Ch 0-488		1	460.00	1.20	552.00		
7th B Main Road		1	205.00	0.90	184.50		
Consider 10% Damaged/Missing Slab					-73.65		
Escort Engineering Layout							
1st cross oppsite road		1	70.00	0.90	63.00		
spire one appartment road		1	35.00	0.90	31.50		
Ramdasappa garden opp road		1	30.00	0.90	27.00		
Santosh Nagar							
1st cross road 4th phase		2	224.00	0.90	403.20		
4th main road		2	105.00	0.90	189.00		
1st cross road		2	110.00	0.90	198.00		
2nd cross road		2	56.00	0.90	100.80		
3rd cross road		2	56.00	0.90	100.80		
SFS 208 Colony							
6th main road		2	110.00	0.90	198.00		
6th main road (continuation)		2	88.00	0.90	158.40		
1st cross road venkatappa		2	123.00	0.90	221.40		
Consider 25% damaged slabs					-422.78		
					3,770.63	**258.50**	**974,706.56**

3 Dismantling kerb stone by manual means and disposal of dismantled material with all lifts and lead (V-3,P.No.10, I.No.2.21 of PWD S.R 2021-22)

Basic rate	18.00						
Area Weightage 10%	1.80						
Total	**19.80**						
	m						
16th A Main Road (Yelahanka Satellite Town)							
LHS							
Ch 0-488		1	460.00		460.00		
1st A Main Road (Yelahanka Satellite Town)							
BHS							
Ch 0-205		2	200.00		400.00		
12th B Main,B Sector							
Ch 0-155		2	155.00		310.00		
					1170.00	**19.80**	**23,166.00**

4 Removing and resetting of kerb stones(Approved Rate)

(Approved Rate)	118.00						
10% AW	11.80						
Total	**129.80**						
	m						
SLIG Appartment roads							
Ch 0 - 54 (LHS)		2	54.00		108.00		
Ch 0 - 55 (RHS)		2	55.00		110.00		

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BBMP Park Adj road		2	124.00			248.00		
consider 25% damaged and missing						-116.50		
13th A Main Road(Major Akshay Girishkumar Road)								
LHS								
Ch 216-985		1	739.00			739.00		
RHS								
Ch 216-985		1	756.00			756.00		
Considering 11% Missing/Damaged Kerb						-164.45		
Escort Engineering Layout								
spire one appartment road		1	35.00			35.00		
Ramdasappa garden opp road		1	30.00			30.00		
Santosh Nagar								
1st cross road 4th phase		2	224.00			448.00		
4th main road		2	105.00			210.00		
1st cross road		2	110.00			220.00		
2nd cross road		2	56.00			112.00		
3rd cross road		2	56.00			112.00		
SFS 208 Colony								
6th main road		2	110.00			220.00		
6th main road (continuation)		2	88.00			176.00		
1st cross road venkatappa layout		2	123.00			246.00		
Consider 25% damaged slabs						-452.25		
						3036.80	129.80	394,176.64

Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work.(V-I.No 1.4.1,Page No-5 of PWD SR 2021-22)

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Basic rate	186.00					
Loading and Unloading (V-III 1.1A,Pno.3 for 5.5m3 Tipper)	118.00					
Sub Total	304.00					
10% AW	30.40					
Total	**334.40**					
	Cum					
Desilt Only						
SLIG Appartment roads						
Ch 0 - 54 (LHS)		2	54.00	0.60	0.50	32.40
Ch 0 - 55 (RHS)		2	55.00	0.60	0.50	33.00
BBMP Park Adj road		2	124.00	0.60	0.50	74.40
New Culverts						
1st main road						
		1	6.00	1.20	1.15	8.28
		1	7.00	1.20	1.15	9.66
For new RCC Drain						
2nd A main Road	L/S	1	230.00	1.10	0.90	227.70
	R/S	1	90.00	1.10	0.90	89.10
1st Main Road		2	290.00	1.10	0.90	574.20
6th Cross Road (LHS)						
Ch-368-535		1	167.00	1.10	1.20	220.44
6th Cross Road (RHS)						
Ch-0-205		1	205.00	1.10	1.20	270.60
4th Cross Road (LHS)						

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Ch-337-475		1	138.00	1.10	1.20	182.16
4th Cross Road (RHS)						
Ch-0-179		1	179.00	1.10	1.20	236.28
Ch-337-475		1	138.00	1.10	1.20	182.16
13th A Main Road(Major Akshay Girishkumar Road)						
Culverts		3	6.00	1.40	0.90	22.68
New Drain						
LHS						
Ch 216-985		1	739.00	1.10	0.90	731.61
RHS						
Ch 216-985		1	756.00	1.10	0.90	748.44
For Desilt						
7th B Main Road		1.00	205.00	0.60	0.60	73.80
16th A Main Road (Yelahanka Satellite Town)						
Culverts		4	6.00	1.40	1.20	40.32
New Drain						
LHS						
Ch 0-488		1	460.00	1.10	0.90	455.40
1st A Main Road (Yelahanka Satellite Town)						
LHS						
Ch 0-205		2	205.00	1.10	0.90	405.90
12th B Main,B Sector						
Ch 0-155		2	155.00	1.10	0.90	306.90
For desilting						
Escort Engineering Layout						
1st cross oppsite road		1	70.00	0.60	0.50	21.00
spire one appartment road		1	35.00	0.60	0.50	10.50
Ramdasappa garden opp road		1	30.00	0.60	0.50	9.00
1st cross road 4th phase		2	224.00	0.60	0.40	107.52
Santosh Nagar						
4th main road		2	105.00	0.60	0.40	50.40
1st cross road		2	110.00	0.60	0.40	52.80
2nd cross road		2	56.00	0.60	0.40	26.88
3rd cross road		2	56.00	0.60	0.40	26.88
SFS 208 Colony						
6th main road		2	110.00	0.60	0.40	52.80
6th main road (continuation)		2	88.00	0.60	0.40	42.24
1st cross road venkatappa layout		2	123.00	0.60	0.40	59.04
New Culverts						
Attur industrial area						
		1	6.00	1.40	1.15	9.66
		1	7.00	1.40	1.15	11.27
					5,405.42	**334.40** **1807572.45**

6 Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates (V-I, No-2.1.3, P.No-15 of PWD SR 2021-22).

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Basic rate	5,752.00					
10% AW	575.20					
Total	**6,327.20 Cum**					
New Culverts						
1st main road						
		1	6.00	1.20	0.15	1.08
		1	7.00	1.20	0.15	1.26
For new RCC Drain						
2nd A main Road	L/S	1	230.00	0.90	0.15	31.05
	R/S	1	90.00	0.90	0.15	12.15
		2	290.00	0.90	0.15	78.30
1st Main Road						
6th Cross Road (LHS)						
Ch-368-535		1	167.00	0.90	0.15	22.55
6th Cross Road (RHS)						
Ch-0-205		1	205.00	0.90	0.15	27.68
4th Cross Road (LHS)						
Ch-337-475		1	138.00	0.90	0.15	18.63
4th Cross Road (RHS)						
Ch-0-179		1	179.00	0.90	0.15	24.17
Ch-337-475		1	138.00	0.90	0.15	18.63
For Existing Footpath space						
6th Cross Road (LHS)		1	167.00	1.00	0.15	25.05
6th Cross Road (RHS)		1	535.00	1.00	0.15	80.25
4th Cross Road		2	475.00	0.90	0.15	128.25
13th A Main Road(Major Akshay Girishkumar Road)						
Culverts		3	6.00	1.40	0.15	3.78
New Drain						
LHS						
Ch 216-985		1	739.00	1.10	0.15	121.94
RHS						
Ch 216-985		1	756.00	1.10	0.15	124.74
13th A Main Road(Major Akshay Girishkumar Road)						
PCC for Footpath						
LHS						
Ch 216-980		1	734.00	1.50	0.15	165.15
RHS						
Ch 216-980		1	751.00	1.50	0.15	168.98
16th A Main Road (Yelahanka Satellite Town)						
Culverts		4	6.00	1.40	0.15	5.04
New Drain						
LHS						
Ch 0-488		1	460.00	1.10	0.15	75.90
0.00						
1st A Main Road (Yelahanka Satellite Town)						
LHS						
Ch 0-205		2	205.00	1.10	0.15	67.65
12th B Main,B Sector						
Ch 0-155		2	155.00	1.10	0.15	51.15
For Footpath						
16th A Main Road (Yelahanka Satellite Town)						

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LHS								
Ch 0-488		1	460.00	1.90	0.15	131.10		
1st A Main Road (Yelahanka Satellite Town)								
BHS								
Ch 0-205		2	200.00	1.90	0.15	114.00		
New Culverts								
Attur industrial area								
		1	6.00	1.40	0.15	1.26		
		1	7.00	1.40	0.15	1.47		
						1501.19	**6327.20**	**9,498,297.73**

7 Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (V-1,P.No.17, I.No.2.4.2of PW, P&IWTD S.R 2021-22)

Basic rate	6,256.00							
Add5% for Shuttering V-1,P.No.115, Sl.No.2 of PW, P&IWTD S.R 2021-22)	312.80							
	6,568.80							
10% AW	656.88							
Total	**7,225.68**							
	Cum							
Bottom Raft								
New Culverts								
1st main road								
		1	6.00	1.00	0.20	1.20		
		1	7.00	1.00	0.20	1.40		
For new RCC Drain								
2nd A main Road	L/S	1	230.00	0.90	0.15	31.05		
	R/S	1	90.00	0.90	0.15	12.15		
1st Main Road		2	290.00	0.90	0.15	78.30		
6th Cross Road (LHS)								
Ch-368-535		1	167.00	0.90	0.15	22.55		
6th Cross Road (RHS)								
Ch-0-205		1	205.00	0.90	0.15	27.68		
4th Cross Road (LHS)								
Ch-337-475		1	138.00	0.90	0.15	18.63		
4th Cross Road (RHS)								
Ch-0-179		1	179.00	0.90	0.15	24.17		
Ch-337-475		1	138.00	0.90	0.15	18.63		
Walls								
Culverts								
1st main road								
		2	6.00	0.20	0.60	1.44		
		2	7.00	0.20	0.60	1.68		
2nd A main Road	L/S	2	230.00	0.15	0.60	41.40		
	R/S	2	90.00	0.15	0.60	16.20		

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1st Main Road		4	290.00	0.15	0.60	104.40
6th Cross Road (LHS)						
Ch-368-535		2	167.00	0.15	0.90	45.09
6th Cross Road (RHS)						
Ch-0-205		2	205.00	0.15	0.90	55.35
4th Cross Road (LHS)						
Ch-337-475		2	138.00	0.15	0.90	37.26
4th Cross Road (RHS)						
Ch-0-179		2	179.00	0.15	0.90	48.33
Ch-337-475		2	138.00	0.15	0.90	37.26
13th A Main Road(Major Akshay Girishkumar Road)						
Culverts						
Raft						
Culverts		3	6.00	1.20	0.20	4.32
Wall						
		6	6.00	0.20	0.60	4.32
New Drain						
Bottom Raft						
LHS						
Ch 216-985		1	739.00	0.90	0.15	99.77
RHS						
Ch 216-985		1	756.00	0.90	0.15	102.06
Side Walls						
LHS						
Ch 216-985		2	739.00	0.15	0.60	133.02
RHS						
Ch 216-985		2	756.00	0.15	0.60	136.08
Culverts						
Raft						
		4	6.00	1.20	0.20	5.76
Wall						
		8	6.00	0.20	0.80	7.68
Bottom Raft						
16th A Main Road (Yelahanka Satellite Town)						
New Drain						
Ch 0-488		1	460.00	0.90	0.15	62.10
1st A Main Road (Yelahanka Satellite Town)						
LHS						
Ch 0-205		2	205.00	0.90	0.15	55.35
12th B Main,B Sector						
Ch 0-155		2	155.00	0.90	0.15	41.85
Walls						
Ch 0-488		2	460.00	0.15	0.60	82.80
1st A Main Road (Yelahanka Satellite Town)						
LHS						
Ch 0-205		4	205.00	0.15	0.60	73.80
12th B Main,B Sector						
Ch 0-155		4	155.00	0.15	0.60	55.80
New Culverts						
Attur industrial area						

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Bottom Raft		1	6.00	1.20	0.20	1.44		
		1	7.00	1.20	0.20	1.68		
Walls								
		2	6.00	0.20	0.80	1.92		
		2	7.00	0.20	0.80	2.24		
						1496.14	7225.68	10,810,628.88

8 Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications. (V-III,P.No.99, I.No.13.1.2of PW, P&IWTD S.R 2021-22) Issue Rate dated on 07-04-2022

Basic rate/Issued Rate	103,329.00							
10% AW	10,332.90							
Total	**113,661.90**							
	Tonne							
Consider 60Kgs/cum for Drain	Tonne		618.44	0.060	--	37.11		
Consider 80Kgs/cum for Culvert	Tonne		5.72	0.080	--	0.46		
Consider 60Kgs/cum for Drain	Tonne		470.93	0.060	--	28.26		
Consider 80Kgs/cum for Culvert	Tonne		8.64	0.080	--	0.70		
Consider 60Kgs/cum for Drain	Tonne		371.70	0.060	--	22.31		
Consider 80Kgs/cum for Culvert	Tonne		13.44	0.080	--	1.08		
Consider 80Kgs/cum for Culvert	Tonne		7.28	0.080	--	0.59		
						90.51	**113661.90**	**10,287,538.57**

9 Providing and fixing precast reinforced cement concrete covering slabs of 10cm thick made of M20 with OPC cement,with 20mm and down size graded granite metal coarse aggregate @0.70 mixed, Inculding providing and removing centering, shuttering, strutting propping etc., for edges of slabs with TMT steel (Fe500) cost of all materials, labour, all lead and lift, HOM of machinery, curing, including cost of reinforcement etc., complete as directed by the Engineer in charge of the work (Data Rate)

Data rate	2,072.00					
	Sqm					
Cover Slab 0.9 m						
For new RCC Drain						
2nd A main Road	L/S	1	230.00	0.90	--	207.00
	R/S	1	90.00	0.90	--	81.00
1st Main Road		2	290.00	0.90	--	522.00
6th Cross Road (LHS) Ch-368-535		1	167.00	0.90	--	150.30
6th Cross Road (RHS) Ch-0-205		1	205.00	0.90	--	184.50
4th Cross Road (LHS) Ch-337-475		1	138.00	0.90	--	124.20
4th Cross Road (RHS) Ch-0-179		1	179.00	0.90	--	161.10
Ch-337-475		1	138.00	0.90	--	124.20
missing and damaged						104.85
Cover Slab 1.2 m **New Drain** Consider 15% Damaged/Missing						269.10

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16th A Main Road (Yelahanka Satellite Town)								
Add Damaged/Missing Slabs						73.65		
1st A Main Road (Yelahanka Satellite Town)								
LHS								
Ch 0-205		2	205	0.90		369.00		
12th B Main,B Sector								
Ch 0-155		2	155	0.90		279.00		
Consider 25% damaged slabs						422.78		
						3072.68	**2072.00**	**6,366,582.60**
10 Providing and fixing RCC precast cover slab of 230mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate).								
Data Rate	5037.00 Sqm							
Cover slab for New Culvert								
New Culverts								
		1	6.00	1.00	--	6.00		
		1	7.00	1.00	--	7.00		
Cover slab for New Culvert		3	6.00	1.20	--	21.60		
Cover slab for New Culvert		4	6.00	1.20	--	28.80		
Attur industrial area								
		1	6.00	1.20	--	7.20		
		1	7.00	1.20	--	8.40		
						79.00	**5037.00**	**397,923.00**
11 Providing and fixing pre cast solid cement concrete kerb stones made out of M20 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete as directed by the Engineer in Charge of the work (Approved Rate)								
Approved Rate	507.00 **No's**							
New Kerbs								
For new RCC Drain								
2nd A main Road		1	230.00			230.00		
1st Main Road		2	290.00			580.00		
6th Cross Road (LHS)								
Ch-368-535		1	167.00			167.00		
6th Cross Road (RHS)								
Ch-0-205		1	205.00			205.00		
4th Cross Road (LHS)								
Ch-337-475		1	138.00			138.00		
4th Cross Road (RHS)								
Ch-0-179		1	179.00			179.00		
Ch-337-475		1	138.00			138.00		
missing and damaged						116.50		
New Kerbs								
add 10% damaged Kerb		1.00	164.45		--	164.45		
New Kerbs								
16th A Main Road (Yelahanka Satellite Town)								
LHS								
Ch 0-488		1.00	460.00			460.00		

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1st A Main Road (Yelahanka Satellite Town)							
BHS							
Ch 0-205		2.00	200.00		400.00		
12th B Main,B Sector		2.00	155.00		310.00		
Consider 25% damaged Kerbs					452.25		
				/0.45	**7867.00**	**507.00**	**3,988,569.00**
12	Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces (V-III No-8.10,P No-56 of PWD BCSR 2021-22)						
	A.Basic rate	85.00					
	B.Area Weightage 10%	8.50					
	Total	**93.50 Sqm**					
	Kerb Painting						
	For new RCC Drain						
	2nd A main Road		1	230.00	0.35	80.50	
	1st Main Road		2	290.00	0.35	203.00	
	6th Cross Road (LHS)						
	Ch-368-535		1	167.00	0.35	58.45	
	6th Cross Road (RHS)						
	Ch-0-205		1	205.00	0.35	71.75	
	4th Cross Road (LHS)						
	Ch-337-475		1	138.00	0.35	48.30	
	4th Cross Road (RHS)						
	Ch-0-179		1	179.00	0.35	62.65	
	Ch-337-475		1	138.00	0.35	48.30	
	For R&R kerb		1	466.00	0.35	163.10	
	Kerb Painting						
	For R&R Kerb		1	1495.00	0.35	523.25	
	Kerb Painting						
	LHS						
	Ch 0-488		1	460.00	0.35	161.00	
	1st A Main Road (Yelahanka Satellite Town)						
	BHS						
	Ch 0-205		2	200.00	0.35	140.00	
	12th B Main,B Sector		2	155.00	0.35	108.50	
	Escort Engineering Layout						
	spire one appartment road		1	35.00	0.35	12.25	
	Ramdasappa garden opp road		1	30.00	0.35	10.50	
	Santosh Nagar						
	1st cross road 4th phase		2	224.00	0.35	156.80	
	4th main road		2	105.00	0.35	73.50	
	1st cross road		2	110.00	0.35	77.00	
	2nd cross road		2	56.00	0.35	39.20	
	3rd cross road		2	56.00	0.35	39.20	
	SFS 208 Colony						
	6th main road		2	110.00	0.35	77.00	
	6th main road (continuation)		2	88.00	0.35	61.60	
	1st cross road venkatappa layout		2	123.00	0.35	86.10	

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						2301.95	93.50	215,232.33
13	Construction of Median and Island above road level with approved material deposited at site from roadway cutting and excavation for drain and foundation of other structures, spread, graded and compacted as per clause 408 (V-3,P.No.25, I.No.4.29 of PW, P&IWTD S.R 2021-22)							
	Basic rate	290.00						
	10% AW	29.00						
	Total	319.00						
		Cum						
	FOR NEW FOOTPATH							
	6th Cross Road (LHS)		1	167.00	1.00	0.20	33.40	
	6th Cross Road (RHS)		1	205.00	1.00	0.20	41.00	
	4th Cross Road (RHS)		1	180.00	0.90	0.20	32.40	
							106.80	319.00	34,069.20
14	Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per m2 over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level , including cost of materials, labour and Usage charges of machinery complete as per specifications. (V-2,P.No.64, I.No.9.31 of PW, P&IWTD S.R 2021-22)							
	Basic rate	1087.00						
	10% AW	108.70						
	Total	1195.70						
		Sqm						
	NEW COBBLE							
	6th Cross Road (LHS)		1	167.00	1.00	--	167.00	
	6th Cross Road (RHS)		1	535.00	1.00	--	535.00	
	4th Cross Road (LHS)		1	475.00	0.90	--	427.50	
	4th Cross Road (RHS)		1	335.00	0.90	--	301.50	
	13th A Main Road(Major Akshay Girishkumar Road)							
	New Footpath Cobble							
	LHS							
	Ch 216-980		1	734.00	1.50	--	1101.00	
	RHS							
	Ch 216-980		1	751.00	1.50	--	1126.50	
	For Footpath							
	16th A Main Road (Yelahanka Satellite Town)							
	LHS					--		
	Ch 0-488		1	460.00	1.90	--	874.00	
	1st A Main Road (Yelahanka Satellite Town)							
	BHS					--		
	Ch 0-205		2	200.00	1.90	--	760.00	
							5292.50	1195.70	6328242.25

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Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work (V-I, P.No-8, I No-1.12)

Basic rate	65.00					
10% AW	6.50					
Total	71.50					
	Cum					
BBMP Park Adj road		1	130.00	7.00	0.30	273.00
13th A Main Road(Major						
Footpath						
LHS						
Ch 216-980		1	734.00	1.50	0.10	110.10
RHS						
Ch 216-980		1	751.00	1.50	0.10	112.65
For CC Road						
10 th B Main Road						
LHS						
Ch 0-70		1	70.00	6.00	0.30	126.00
For Footpath						
16th A Main Road						
LHS						
Ch 0-488		1	460.00	1.90	0.15	131.10
1st A Main Road (Yelahanka						
BHS						
Ch 0-205		2	200.00	1.90	0.15	114.00
1st cross in 2nd main		1	39.00	0.60	0.25	5.85
UGD Cuts						
Escort Engineering Layout						
1st cross road		2	65.00	0.60	0.25	19.50
1st cross oppsite road		1	70.00	0.90	0.25	15.75
spire one appartment road		1	35.00	0.60	0.25	5.25
Ramdasappa garden road		2	240.00	0.90	0.25	108.00
Ramdasappa garden opp road		1	30.00	0.60	0.25	4.50
6th main road		2	275.00	0.90	0.25	123.75
1st cross road 4th phase		1	224.00	0.90	0.25	50.40
Santosh Nagar						
4th main road		2	105.00	0.90	0.25	47.25
CC Road						
1st cross road venkatappa		1	123.00	5.00	0.30	184.50
2nd cross road venkatappa		1	122.00	5.00	0.30	183.00
#180 ,208 SFS Cross road		1	25.00	4.50	0.30	33.75
			1648.35	**71.50**		**117,857.03**

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16 Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density (V-III No-4.27 A,P No-24 of PWD BCSR 2021-22)

Basic rate	2,394.00							
10% AW	239.40							
Sub Total	**2,633.40**							
	Cum							
BBMP Park Adj road		1	130.00	7.00	0.25	227.50		
1st cross in 2nd main		1	39	0.6	0.2	4.68		
Escort Engineering Layout								
1st cross road		2	65.00	0.60	0.20	15.60		
1st cross oppsite road		1	70.00	0.90	0.20	12.60		
spire one appartment road		1	35.00	0.60	0.20	4.20		
Ramdasappa garden road		2	240.00	0.90	0.20	86.40		
Ramdasappa garden opp road		1	30.00	0.60	0.20	3.60		
6th main road		2	275.00	0.90	0.20	99.00		
1st cross road 4th phase		1	224.00	0.90	0.20	40.32		
Santosh Nagar								
4th main road		2	105.00	0.90	0.20	37.80		
						531.70	**2633.40**	**1,400,178.78**

17 Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means. (V-III No-5.1 A,P No-29 of PWD BCSR 2021-22)

Basic rate (~~Issue Rate~~)	44.00							
10% AW	4.40							
Sub Total	**48.40**							
	Sqm							
BBMP Park Adj road		1	130.00	7.00	--	910.00		
1st cross in 2nd main		1	39.00	0.60	--	23.40		
Escort Engineering Layout								
1st cross road		2	65.00	0.60	--	78.00		
1st cross oppsite road		1	70.00	0.90	--	63.00		
spire one appartment road		1	35.00	0.60	--	21.00		
Ramdasappa garden road		2	240.00	0.90	--	432.00		
Ramdasappa garden opp road		1	30.00	0.60	--	18.00		
6th main road		2	275.00	0.90	--	495.00		
1st cross road 4th phase		1	224.00	0.90	--	201.60		
Santosh Nagar								
4th main road		2	105.00	0.90	--	189.00		
						2431.00	**48.40**	**117,660.40**

18 Providing and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.20 kg/m2 on the prepared bituminous surface cleaned with mechanical broom. (V-III No-5.3,P No-29 of PWD BCSR 2021-22)

Basic rate (~~Issue Rate~~)	12.00
Area Weightage 10%	1.20
Final Rate	**13.20**
	Sqm

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Tack coat for DBM						
BBMP Park Adj road		1	130.00	7.00	--	910.00
Tack coat for BC						
BBMP Park Adj road		1	130.00	7.00	--	910.00
profile correction DBM						
1st A Main Road		1	175.00	2.20	--	385.00
7th B Main Road		1	150.00	1.35	--	202.50
Overlay BC						
1st A Main Road		1	205.00	12.00	--	2460.00
7th B Main Road		1	205.00	6.50	--	1332.50
Tack coat for DBM						
1st cross in 2nd main		1	39.00	0.60	--	23.40
Escort Engineering Layout						
1st cross road		2	65.00	0.60	--	78.00
1st cross oppsite road		1	70.00	0.90	--	63.00
spire one appartment road		1	35.00	0.60	--	21.00
Ramdasappa garden road		2	240.00	0.90	--	432.00
Ramdasappa garden opp road		1	30.00	0.60	--	18.00
6th main road		2	275.00	0.90	--	495.00
					--	
1st cross road 4th phase		1	224.00	0.90	--	201.60
					--	0.00
Santosh Nagar					--	0.00
4th main road		2	105.00	0.90	--	189.00
					--	
profile correction						
CQAL layout main road					--	
Ch-0-520		1	460.00	2.20	--	1012.00
Tack coat for BC						
1st cross in 2nd main		1	39.00	5.50	--	214.50
Escort Engineering Layout						
1st cross road		1	65.00	5.50		357.50
1st cross oppsite road		1	70.00	6.00		420.00
spire one appartment road		1	35.00	4.00	--	140.00
Ramdasappa garden road		1	240.00	6.00	--	1440.00
Ramdasappa garden opp road		1	30.00	4.50	--	135.00
6th main road		1	275.00	6.00	--	1650.00
					--	
1st cross road 4th phase		1	224.00	5.80	--	1299.20
					--	
Santosh Nagar					--	
4th main road		1	105.00	7.00	--	735.00
					--	
					--	
CQAL layout main road					--	
Ch-0-520		1	520.00	8.00	--	4160.00
					19284.20	**13.20**	**254,551.44**

19 Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 505 complete in all respects (V-III No-5.12 C ,P No-33 of PWD BCSR 2021-22)

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Combined Estimate

Basic rate (Issue Rate)	9,889.00							
Area Weightage 10%	988.90							
Sub Total	**10,877.90 Cum**							
BBMP Park Adj road		1	130.00	7.00	0.05	45.50		
profile correction DBM								
1st A Main Road		1	175.00	2.20	0.05	19.25		
7th B Main Road		1	150.00	1.35	0.05	10.13		
1st cross in 2nd main		1	39.00	0.60	0.05	1.17		
Escort Engineering Layout								
1st cross road		2	65.00	0.60	0.05	3.90		
1st cross oppsite road		1	70.00	0.90	0.05	3.15		
spire one appartment road		1	35.00	0.60	0.05	1.05		
Ramdasappa garden road		2	240.00	0.90	0.05	21.60		
Ramdasappa garden opp road		1	30.00	0.60	0.05	0.90		
6th main road		2	275.00	0.90	0.05	24.75		
1st cross road 4th phase		1	224.00	0.90	0.05	10.08		
Santosh Nagar								
4th main road		2	105.00	0.90	0.05	9.45		
profile correction								
CQAL layout main road								
Ch-0-520		1	460.00	2.20	0.05	50.60		
						201.53	**10877.90**	**2,192,168.80**

Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 per cent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects (V-III, P.No.36, I.No.5.16C of PWD SR 2021-22).

Basic rate (Issue Rate)	11,531.00							
Area Weightage 10%	1,153.10							
Sub Total	**12,684.10 Cum**							
BBMP Park Adj road		1	130.00	7.00	0.04	36.40		
Overlay BC								
1st A Main Road		1	205.00	12.00	0.04	98.40		
7th B Main Road		1	205.00	6.50	0.04	53.30		
1st cross in 2nd main		1	39.00	5.50	0.04	8.58		
Escort Engineering Layout								
1st cross road		1	65.00	5.50	0.04	14.30		
1st cross oppsite road		1	70.00	6.00	0.04	16.80		
spire one appartment road		1	35.00	4.00	0.04	5.60		
Ramdasappa garden road		1	240.00	6.00	0.04	57.60		
Ramdasappa garden opp road		1	30.00	4.50	0.04	5.40		
6th main road		1	275.00	6.00	0.04	66.00		
1st cross road 4th phase		1	224.00	5.80	0.04	51.97		
Santosh Nagar								
4th main road		1	105.00	7.00	0.04	29.40		
CQAL layout main road								

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Ch-0-520		1	520.00	8.00	0.04	166.40		
						610.15	12684.10	7,739,178.25

21 Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/ m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes (V-III No-8.15,P No-57 of PWD BCSR 2021-22)

Basic rate	478.00							
Area Weightage 10%	47.80							
Sub Total	**525.80**							
	Sqm							
For Edge And Center line								
BBMP Park Adj road		3	130.00	0.10		32.50		
1st A Main Road		3	205.00	0.10		51.25		
7th B Main Road		3	205.00	0.10		51.25		
For Edge And Center line								
1st cross in 2nd main		2	39.00	0.10		7.80		
Escort Engineering Layout								
1st cross road		2	65.00	0.10		13.00		
1st cross oppsite road		2	70.00	0.10		14.00		
spire one appartment road		2	35.00	0.10		7.00		
Ramdasappa garden road		2	240.00	0.10		48.00		
Ramdasappa garden opp road		2	30.00	0.10		6.00		
6th main road		2	275.00	0.10		55.00		
1st cross road 4th phase		2	224.00	0.10		44.80		
Santosh Nagar								
4th main road		2	105.00	0.10		21.00		
CQAL layout main road								
Ch-0-520		3	520.00	0.10		130.00		
						481.60	**525.80**	253,225.28

22 Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:5:10 Using 40 mm nominal size graded crushed coarse aggregates(V-I,I No-2.11, P.No-15of KPWD SR 2021-22)

Basic rate	4,976.00							
10% AW	497.60							
Final Rate	**5473.60**							
	Cum							
For CC Road								
10 th B Main Road								
LHS								
Ch 0-70		1	70.00	6.00	0.15	63.00		
CC Road								
1st cross road venkatappa layout		1	123.00	5.00	0.15	92.25		
2nd cross road venkatappa layout		1	122.00	5.00	0.15	91.50		
#180 ,208 SFS Cross road		1	25.00	4.50	0.15	16.88		

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						263.63	5473.60	1,442,977.80

23 Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including construction joints, , primer, sealant , curing of concrete slabs for 14-days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc., complete. as per the directions of the Engineer-in-charge of the work(V-III No-20.29,PNo-138 of PWD BCSR 2021-22)

Basic rate	6,837.00							
10% AW	683.70							
Final Rate	**7520.70**							
	Cum							
For CC Road								
10 th B Main Road								
LHS								
Ch 0-70		1	70.00	6.00	0.15	63.00		
CC Road								
1st cross road venkatappa layout		1	123.00	5.00	0.15	92.25		
2nd cross road venkatappa layout		1	122.00	5.00	0.15	91.50		
#180 ,208 SFS Cross road		1	25.00	4.50	0.15	16.88		
						263.63	**7520.70**	1,982,644.54

24 Cost of Haulage Excluding Loading and Unloading Taking output 10 t load and lead 10 km = 100 t.km (V-III Page No.3, Item No.1.4 A of PWD SR 2021-22)

Basic Rate	12.00							
8KM Lead = 12*8	96.00							
Area Weightage 10%	9.60							
Total Rate	105.60							
	t.Km							
Qty frm Item No-5			5405.42	1.28		6918.94		
Qty frm Item No-15			1648.35	1.28		2109.89		
						9,028.83	**105.60**	953,443.98

Civil Works

25 Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material to the appropriate disposal area as per direction of Engineer-in-charge Asbestos cement sheet (P.No.165, V-II, I.No.19.27.2 -of PWD SR 2021-22)

A.Basic rate	388.00					
(Area Weightage 10%)	38.80					
Total	**426.80**					
	Sqm					
Sheet Roof Demolish						
Room 1		1	8.00	6.00	48.00	
Room 2		1	8.00	6.00	48.00	
Room 3		1	11.60	6.00	69.60	
Room 4		1	8.60	7.20	61.92	
Room 5		1	8.60	8.60	73.96	
Room 6		1	8.60	7.20	61.92	
Room 7		1	8.60	6.30	54.18	

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	Room 8		1	8.60		6.50	55.90	
	Room 9		1	8.60		5.20	44.72	
	Room 10		1	8.10		6.00	48.60	
	Room 11		1	8.20		6.00	49.20	
						Total	**616.00**	**426.80**	**262908.80**
26	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material to the appropriate disposal area as per direction of Engineer-in-charge.**In cement mortar(V-II, I.No 19.7.3, Page No-163 of PWD SR 2021-22)**								
	Basic Rate	789.00							
	Area Weightage @ 10%	78.90							
	Total	**867.90**							
		Cum							
	Demolishing walls								
	Room 1		2	7.20	0.40	2.60	14.98		
			2	5.20	0.40	2.60	10.82		
	Area of Triangle portion @ roof = 0.5*5.2*1.5 = 3.90		2	3.90	0.40		3.12		
	Room 2		2	7.20	0.40	2.60	14.98		
			1	5.20	0.40	2.60	5.41		
	Area of Triangle portion @ roof = 0.5*5.2*1.5 = 3.90		1	3.90	0.40		1.56		
	Room 3		2	11.50	0.40	2.60	23.92		
			1	5.20	0.40	2.60	5.41		
	Area of Triangle portion @ roof = 0.5*5.2*1.5 = 3.90		1	3.90	0.40		1.56		
	Room 4		2	8.00	0.40	2.60	16.64		
			2	8.50	0.40	2.60	17.68		
	Area of Triangle portion @ roof = 0.5*7.2*1.5 = 6.98		2	5.40	0.40		4.32		
	Room 5		2	9.00	0.40	2.60	18.72		
			1	8.50	0.40	2.60	8.84		
	Area of Triangle portion @ roof = 0.5*7.2*1.5 = 6.98		1	5.40	0.40		2.16		
	Room 6		2	7.60	0.40	2.60	15.81		
			1	8.50	0.40	2.60	8.84		
	Area of Triangle portion @ roof = 0.5*7.2*1.5 = 6.98		1	5.40	0.40		2.16		
	Room 7		2	6.70	0.40	2.60	13.94		
			1	8.50	0.40	2.60	8.84		
	Area of Triangle portion @ roof = 0.5*7.2*1.5 = 6.98		1	5.40	0.40		2.16		
	Room 8		2	6.90	0.40	2.60	14.35		
			1	8.50	0.40	2.60	8.84		
	Area of Triangle portion @ roof = 0.5*7.2*1.5 = 6.98		1	5.40	0.40		2.16		
	Room 9		2	5.60	0.40	2.60	11.65		
			1	8.50	0.40	2.60	8.84		
	Area of Triangle portion @ roof = 0.5*7.2*1.5 = 6.98		1	5.40	0.40		2.16		
	Room 10		2	7.30	0.40	2.60	15.18		
			2	5.20	0.40	2.60	10.82		
	Room 11		2	7.40	0.40	2.60	15.39		
			1	5.20	0.40	2.60	5.41		
	sports room		2	4.10	0.40	2.60	8.53		
			1	6.90	0.40	2.60	7.18		
						Total	**312.35**	**867.90**	**271090.30**
27	Demolishing stone rubble masonry manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material to the appropriate disposal area as per direction of Engineer in-charge. In cement mortar (P.No.163, V-II, I.No.19.9.2 -of PWD SR 2021-22)								
	A.Basic rate	1,290.00							
	(Area Weightage 10%)	129.00							

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Total	1,419.00 Cum							
Foundation Demolish								
Room 1		2	7.20	0.60	0.60	5.18		
		2	5.20	0.60	0.60	3.74		
Room 2		2	7.20	0.60	0.60	5.18		
		1	5.20	0.60	0.60	1.87		
Room 3		2	11.50	0.60	0.60	8.28		
		1	5.20	0.60	0.60	1.87		
Room 4		2	7.20	0.60	0.60	5.18		
		2	8.50	0.60	0.60	6.12		
Room 5		2	8.60	0.60	0.60	6.19		
		1	8.50	0.60	0.60	3.06		
Room 6		2	7.20	0.60	0.60	5.18		
		1	8.50	0.60	0.60	3.06		
Room 7		2	6.30	0.60	0.60	4.54		
		1	8.50	0.60	0.60	3.06		
Room 8		2	6.50	0.60	0.60	4.68		
		1	8.50	0.60	0.60	3.06		
Room 9		2	5.20	0.60	0.60	3.74		
		1	8.50	0.60	0.60	3.06		
Room 10		2	7.30	0.60	0.60	5.26		
		2	5.20	0.60	0.60	3.74		
Room 11		2	7.40	0.60	0.60	5.33		
		1	5.20	0.60	0.60	1.87		
Paassage SSM		1	35.00	0.60	0.45	9.45		
					Total	**102.73**	**1419.00**	**145768.19**

18 Earth work excavation for Foundation by mechanical means for all works & depth upto 3 m, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenaces required to complete the work.**In all kinds of soils Depth upto 3 m (I. No 1.14.1, P. No-8 of PWD & IWTD, Vol-1 SR 2021-22)**

Basic Rate	73.00							
Area Weightage @ 10%	7.30							
Total	80.30 Cum							
Footing								
F1		24	3.00	3.00	1.80	388.80		
F2		20	2.40	2.40	1.80	207.36		
F3		18	1.50	1.50	1.80	72.90		
Boys Toilet -Footing		4	1.50	1.50	1.30	11.70		
SSM - external walls								
L1		4	25.59	0.90	0.90	82.91		
L2		2	36.30	0.90	0.90	58.81		
Passage		2	17.830	0.90	0.90	28.88		
		1	31.83	0.90	0.90	25.78		
Internal walls		12	4.63	0.90	0.90	45.00		
Boys Toilet -SSM Allround								
Long wall		2	11.13	0.90	0.90	18.03		
Short wall		2	3.33	0.90	0.90	5.39		
Deductions								
F1		-24	3.00	0.90	0.90	-58.32		
F2		-20	2.40	0.90	0.90	-38.88		
F3		-18	1.50	0.90	0.90	-21.87		
Boys Toilet -Footing		-4	1.50	0.90	0.90	-4.86		
						821.64		
Consider 70% othe the Total Qty					Total Qty	**575.15**	80.30	46184.57

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29	Earth work excavation for Foundation by mechanical means for all works & depth upto 3 m, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenaces required to complete the work. **In soft rock without blasting upto 1.5m depth (I. No 1.15.1, P. No-8 of PWD & IWTD, Vol-1 SR 2021-22)**								
	Basic Rate	272.00							
	Area Weightage @ 10%	27.20							
	Total	299.20							
		Cum							
	Consider 30% othe the Total Qty Vide Item No 4						Total Qty	246.49	299.20	73750.70
30	Providing and injecting chemical emulsion for Pre-constructional Anti-Termite Treatment, creating continuous chemical barrier under and around the column pits, walls, trenches, basement excavation, top surface of the plinth filling, junction of wall and floor, along the external perimeter of building, expansion joints, over the top surface of consolidated earth on which apron is to be laid, surrounding of pipes and conduits with Chlorpyriphos 20% E.C. / Lindane 20% E.C. @3.19 l/m2 including cost of chemical, diluting in water to one percent concentration, labour, usage charges of machinery, complete as per specifications. (I. No 4.1, P. No-5 of PWD & IWTD, Vol-2 SR 2021-22)								
	Basic Rate	95.00							
	Area Weightage @ 10%	9.50							
	Total	**104.50**							
		Sqm							
	Total Plot area of Building		2	24.920	8.000	--		398.72		
			1	32.500	8.000	--		260.00		
	Boys Toilet		1	10.460	4.460	--		46.65		
							Total Qty	**705.37**	104.50	73711.33
31	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) **Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates.**								
	(I. No 2.1.3, P. No-15 of PWD & IWTD, Vol-1 SR 2021-22)								
	Footing								
	F1		24	3.00	3.00	0.15		32.40		
	F2		20	2.40	2.40	0.15		17.28		
	F3		18	1.50	1.50	0.15		6.08		
	Boys Toilet -Footing		4	1.50	1.50	0.15		1.35		
	SSM - external walls									
	L1		4	25.59	0.90	0.15		13.82		
	L2		2	36.30	0.90	0.15		9.80		
	Passage		2	17.83	0.90	0.15		4.81		
			1	31.83	0.90	0.15		4.30		
	Internal walls		12	4.63	0.90	0.15		7.50		
	Boys Toilet -SSM Allround									
	Long wall		2	11.13	0.90	0.15		3.01		
	Short wall		2	3.33	0.90	0.15		0.90		
	Deductions									
	F1		-24	3.00	0.90	0.15		-9.72		
	F2		-20	2.40	0.90	0.15		-6.48		
	F3		-18	1.50	0.90	0.15		-3.65		
	Boys Toilet -Footing		-4	1.50	0.90	0.15		-0.81		
		Cum					Total Qty	80.59	6833.38	550671.36
	Basic Rate	5,752.00								

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Add Formwork, Centering & Scaffolding @ 8% of finished rate	460.16							
Sub Total	6,212.16							
Area Weightage @ 10%	621.22							
Total	6,833.38							

32 Providing and laying in position Reinforced cement concrete for all Foundation works. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticizers laid in finished layers, well compacted using needle vibrators, including all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately). **M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregate**

(I. No 2.2.2.1, P. No-15 of PWD & IWTD, Vol-I SR 2021-22)

Footing								
F1		24	3.00	3.00	0.60	129.60		
F2		20	2.40	2.40	0.60	69.12		
F3		18	1.50	1.50	0.60	24.30		
Boys Toilet -Footing		4	1.50	1.50	0.60	5.40		
	Cum				Total Qty	**228.42**	7466.58	1705516.20
Basic Rate	6,285.00							
Add Formwork, Centering & Scaffolding @ 8% of finished rate	502.80							
Sub Total	6,787.80							
Area Weightage @ 10%	678.78							
Total	7,466.58							

33 Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand)

(I. No 5.4, P. No-9 of PWD & IWTD, Vol-2 SR 2021-22)

First Step						
SSM - external walls						
L1	4	25.59	0.75	0.20	15.35	
L2	2	36.30	0.75	0.20	10.89	
Passage	2	17.83	0.75	0.20	5.35	
	1	31.83	0.75	0.20	4.77	
Internal walls	12	4.63	0.75	0.20	8.33	
Boys Toilet -SSM Allround						
Long wall	2	11.13	0.75	0.20	3.34	
Short wall	2	3.33	0.75	0.20	1.00	
Second Step						
L1	4	25.59	0.60	0.45	27.64	
L2	2	36.30	0.60	0.45	19.60	
Passage	2	17.83	0.60	0.45	9.63	
	1	31.83	0.60	0.45	8.59	
Internal walls	12	4.63	0.60	0.45	15.00	
Boys Toilet -SSM Allround						
Long wall	2	11.13	0.60	0.45	6.01	
Short wall	2	3.33	0.60	0.45	1.80	
Third Step						
SSM - external walls						
L1	4	25.59	0.45	0.20	9.21	
L2	2	36.30	0.45	0.20	6.53	
Passage	2	17.83	0.45	0.20	3.21	
	1	31.83	0.45	0.20	2.86	
Internal walls	12	4.63	0.45	0.20	5.00	
Boys Toilet -SSM Allround						
Long wall	2	11.13	0.45	0.45	4.51	
Short wall	2	3.33	0.45	0.45	1.35	

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				Total Qty	169.99	5964.20	1013841.24
	Cum						
Basic Rate	5,422.00						
Area Weightage @ 10%	542.20						
Total	5,964.20						
34	Providing Flush/ Ruled pointing: Pointing on stone work with cement mortar 1:3 (1 cement : 3 fine sand) after raking joints to depth nicely lining, including cost of materials, labour, curing as per specifications and as per directions of Engineer-in-charge.						
	(I. No 8.19.1, P. No-44 of PWD & IWTD, Vol-2 SR 2021-22)						
	Third Step						
	SSM - external walls						
	L1		4	25.59	0.20	20.47	
	L2		2	36.30	0.20	14.52	
	Passage		2	17.83	0.20	7.13	
			1	31.83	0.20	6.37	
	Internal walls		12	4.63	0.20	11.11	
	Boys Toilet -SSM Allround						
	Long wall		2	11.13	0.45	10.02	
	Short wall		2	3.33	0.45	3.00	
					Total Qty	72.62	220.00	15975.52
		Sqm						
	Basic Rate	200.00						
	Area Weightage @ 10%	20.00						
	Total	220.00						
35	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations and other similar works etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.						
	(I. No 1.9, P. No-7 of PWD & IWTD, Vol-1 SR 2021-22)						
	Total Earthwork Qty					821.64		
	PCC +SSM in foundation + Footing Concrete+Column Cocrete					478.99		
					Total Qty	342.65	224.40	76890.65
		Cum						
	Basic Rate	204.00						
	Area Weightage @ 10%	20.40						
	Total	224.40						
36	Supplying and filling in plinth with sand under floors, foundation of Bridges including watering, ramming, consolidating and dressing complete.						
	(I. No 1.11, P. No-7 of PWD & IWTD, Vol-1 SR 2021-22)						
	Qty same as the Serial No 12					342.65		
					Total Qty	342.65	2394.70	820543.84
		Cum						
	Basic Rate	2,177.00						
	Area Weightage @ 10%	217.70						
	Total	2,394.70						
37	Removal of Unserviceable Soil with Disposal upto a suitable distance as directed by the Engineer incharge of work						
	(I. No 3.1 P. No-15 of PWD & IWTD, Vol-3 SR 2021-22)						
	Qty Same as Serial No 12		--	--	--	342.65		
	Dismantling Debris					415.08		
					Total Qty	757.73	35.20	26672.02
		Cum						
	Basic Rate:	32.00						
	Area weightage @ 10%	3.20						
	Total	35.20						

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38 Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, **Sub structure** works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) **M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates.**

(I. No 2.4.3, P. No-17 of PWD & IWTD, Vol-1 SR 2021-22)

Column upto plinth level								
C1		24	0.23	0.60	1.05	3.48		
C2		20	0.23	0.60	1.05	2.90		
C3		18	0.071		0.75	0.95		
Boys Toilet - Column		4	0.23	0.45	0.75	0.31		
	Cum					**7.64**		
Plinth Beams								
PB1		4	24.92	0.23	0.60	13.76		
PB2		2	36.92	0.23	0.60	10.19		
PB3		12	5.30	0.23	0.60	8.78		
PB4		2	17.16	0.23	0.60	4.74		
PB5		1	32.50	0.23	0.60	4.49		
Boys Toilet - PB		2	10.46	0.23	0.45	2.17		
		2	4.00	0.23	0.45	0.83		
	Cum					**44.94**		
					Total Qty	**52.58**	7621.79	400729.44

Basic Rate	6,299.00
Add Formwork, Centering & Scaffolding @ 10% of finished rate	629.90
Sub total	6,928.90
Area Weightage @ 10%	692.89
Total	7,621.79

39 Providing and laying in position Reinforced cement concrete for all Super structures of building, Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately). **M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates.**

(I. No 2.5.2, P. No-17 of PWD & IWTD, Vol-1 SR 2021-22)

GROUND FLOOR								
Column								
C1		24	0.23	0.60	3.60	11.92		
C2		20	0.23	0.60	3.60	9.94		
C3		18	0.071		3.60	4.58		
Boys Toilet - Column		4	0.23	0.45	3.00	1.24		
	Cum					**27.68**		
Staircase								
Waist slab		1	3.76	1.20	0.175	0.79		
		2	2.01	1.20	0.175	0.84		
Steps		24	1.20	0.30	0.15	1.30		
						2.93		
	Cum				Total Qty	**30.61**	7855.32	240444.43

Basic Rate	6,492.00
Add Formwork, Centering & Scaffolding @ 10% of finished rate	649.20
Sub total	7,141.20

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Area Weightage @ 10%	714.12							
Total	7,855.32							
TERRACE								
Column								
C1		24	0.23	0.60	0.75	2.48		
C2		20	0.23	0.60	0.75	2.07		
C3		18	0.071		0.75	0.95		
	Cum				Total Qty	**5.51**	7933.87	43697.99
Basic Rate	6,492.00							
Add lift charges @ 1% per floor	64.92							
Add Formwork, Centering & Scaffolding @ 10% of finished rate	655.69							
Sub total	7,212.61							
Area Weightage @ 10%	721.26							
Total	7,933.87							
GROUND FLOOR								
Roof Beams								
RB1		4	24.92	0.23	0.60	13.76		
RB2		2	36.92	0.23	0.60	10.19		
RB3		12	5.30	0.23	0.60	8.78		
RB4		2	17.16	0.23	0.60	4.74		
RB5		1	32.50	0.23	0.60	4.49		
Boys Toilet - RB		2	10.46	0.23	0.45	2.17		
		2	4.00	0.23	0.45	0.83		
	Cum					**44.94**		
Lintel Beams								
LB1		4	24.92	0.23	0.15	3.44		
LB2		2	36.92	0.23	0.15	2.55		
Boys Toilet - LB		2	10.46	0.23	0.15	0.72		
		2	4.00	0.23	0.15	0.28		
	Cum					**6.98**		
Slab								
Slab Area		2	24.92	8.00	0.150	59.81		
		1	32.50	8.00	0.150	39.00		
Boys Toilet-Slab		1	10.46	4.46	0.150	7.00		
Deduction								
Staircase		-1	5.76	4.05	0.150	-3.50		
						102.31		
	Cum				Total Qty	**154.23**	8569.44	1321644.68
Basic Rate	6,492.00							
Add Formwork, Centering & Scaffolding @ 20% of finished rate	1,298.40							
Sub total	7,790.40							
Area Weightage @ 10%	779.04							
Total	8,569.44							

40 Providing and laying in position Reinforced cement concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately). **M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates.**
(I. No 2.5.1, P. No-17 of PWD & IWTD, Vol-1 SR 2021-22)

GROUND FLOOR

Cill concrete

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W		28	2.00	0.23	0.15	1.93		
V		10	0.60	0.23	0.15	0.21		
	Cum					2.14		
Chajja								
W		20	2.00	0.60	0.15	3.60		
	Cum					3.60		
					Total Qty	5.74	10321.25	59233.63
Basic Rate	6,471.00							
Add Formwork, Centering & Scaffolding @ 45% of finished rate	2,911.95							
Sub total	9,382.95							
Area Weightage @ 10%	938.30							
Total	10,321.25							
TERRACE								
Parapet wall coping		2	24.92	0.15	0.10	0.75		
		2	8.00	0.15	0.10	0.24		
		2	17.16	0.15	0.10	0.51		
		1	32.50	0.15	0.10	0.49		
		1	48.49	0.15	0.10	0.73		
	Cum					2.72		
					Total Qty	2.72	10424.46	28325.86
Basic Rate	6,471.00							
Add lift charges @ 1% per floor	64.71							
Add Formwork, Centering & Scaffolding @ 45% of finished rate	2,941.07							
Sub total	9,476.78							
Area Weightage @ 10%	947.68							
Total	10,424.46							

41 Providing Thermo-Mechanically Treated bars of grade Fe-500 or more Steel reinforcement for R.C.C. work including straightening,cutting, bending, placing in position, binding and anchoring to adjacent members whereever necessary complete as per Design including cost of material, labour, usage charges complete as per specifications. (The laps and wastages shall not be measured separately)

(I. No 11.32 P. No-84 of PWD & IWTD, Vol-II SR 2021-22)

GROUND FLOOR					Steel in KG/Cum			
Footings			228.42	--	45.00	10278.90		
Plinth beam			44.94	--	110.00	4943.06		
Columns			35.32	--	160.00	5651.07		
Lintel			6.98	--	80.00	558.73		
Roof Beam			44.94	--	130.00	5841.80		
Roof Slab			102.31	--	80.00	8184.52		
Staircase			2.93	--	110.00	322.28		
Chajja, Cill & Canopy			5.74	--	80.00	459.12		
	Kgs					36239.49	116.60	4225524.81
Basic Rate (issue rates w.e.f 07-04-22)	106.00							
Area Weightage @ 10%	10.60							
Total	116.60							
TERRACE					Steel in KG/Cum			
Columns			5.51	--	160.00	881.24		
						881.24		
	Kgs				Total Qty	0.88	117.77	103.78
Basic Rate (issue rates w.e.f 07-04-22)	106.00							

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Add lift charges @ 1% per floor	1.06						
Sub Total	107.06						
Area Weightage @ 10%	10.71						
Total	117.77						

42 Providing and constructing load bearing wall with Solid Concrete blocks of size 400x200x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications. **8" Block**

(I. No 6.32, P. No-17 of PWD & IWTD, Vol-2 SR 2021-22)

GROUND FLOOR							
Main Long Wall							
L1		4	24.92	3.00	299.04		
L2		2	36.92	3.00	221.52		
Short wall(internal wall)		12	5.30	3.00	190.80		
Boys Toilet-External walls							
Long Wall		2	10.46	2.55	53.35		
Short Wall		2	4.00	2.55	20.40		
Deduction for Openings							
W		-28	2.00	1.50	-84.00		
V		-10	0.60	0.60	-3.60		
D		-11	1.20	2.10	-27.72		
Stair Case		-2	4.05	3.00	-24.30		
	Sqm			Total Qty	**645.49**	**1322.20**	**853461.59**
Basic Rate	1,202.00						
Area Weightage @ 10%	120.20						
Total	1,322.20						

43 Providing and constructing load bearing wall with Solid Concrete blocks of size 400x150x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications. **6" Block**

(I. No 6.33, P. No-17 of PWD & IWTD, Vol-2 SR 2021-22)

Ground Floor							
Boys Toilet - Inetrmediate walls							
Long wall		1	8.40	2.10	17.64		
Short wall		7	1.20	2.10	17.64		
Deductions - D1		-7	0.70	2.10	-10.29		
					24.99	**1173.70**	**29330.76**
	Sqm						
Basic Rate	1,067.00						
Area Weightage @ 10%	106.70						
Total	1,173.70						
TERRACE							
Parapet Wall		2	24.92	0.90	44.86		
		2	8.00	0.90	14.40		
		2	17.16	0.90	30.89		
		1	32.50	0.90	29.25		
		1	48.49	0.90	43.64		
					163.04	**1185.44**	**193267.72**
	Sqm						
Basic Rate	1,067.00						
Add lift charges @ 1% per floor	10.67						
Sub Total	1,077.67						
Area Weightage @ 10%	107.77						
Total	1,185.44						

Scanned with CamScanner

44 Providing 20 mm cement plaster of mix :1:4 (1 cement: 4 fine sand) to brick/stone masonary including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. Extra for Plastering exterior walls of height more than 10m from ground level for every additional height of 3m or part thereof including cost of material, labour, scaffolding etc as per specifications and as per directions of the Engineer-in-charge.

External Wall Plastering

(I. No 8.3.1 & 8.13 P. No-41, 43 of PWD & IWTD, Vol-2 SR 2021-22)

GROUND FLOOR							
Main Long Wall							
L1		4	24.92		3.60	358.85	
L2		2	36.92		3.60	265.82	
Boys Toilet-External walls							
Long Wall		2	10.46		3.00	62.76	
Short Wall		2	4.46		3.00	26.76	
Chajja Plastering							
W		20	3.20		0.15	9.60	
Deduction for Openings							
W	0.50	-28	2.00		1.50	-42.00	
D	0.50	-11	1.20		2.10	-13.86	
V	0.50	-10	0.60		0.60	-1.80	
	Sqm				Total Qty	666.13	482.63	321491.96
Basic Rate	351.00						
Add Formwork, Centering & Scaffolding @ 25% of finished rate	87.75						
Sub Total	438.75						
Area Weightage @ 10%	43.88						
Total	482.63						
TERRACE							
Parapet Wall		2	24.92		0.90	44.86	
		2	8.00		0.90	14.40	
		2	17.16		0.90	30.89	
		1	32.50		0.90	29.25	
		1	48.49		0.90	43.64	
	Sqm					163.04	487.45	79471.61
Basic Rate	351.00						
Add lift charges @ 1% per floor	3.51						
Add Formwork, Centering & Scaffolding @ 25% of finished rate	88.63						
Sub Total	443.14						
Area Weightage @ 10%	44.31						
Total	487.45						

45 Providing 15 mm cement plaster with cement mortar 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement to brick/stone masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. **(Internal Wall Plastering)**

(I. No 8.7, P. No-42 of PWD & IWTD, Vol-2 SR 2021-22)

GROUND FLOOR						
Main Long Wall						
L1	4	24.92		3.45	343.90	
L2	2	36.92		3.45	254.75	
Short wall(internal wall)	24	5.30		3.45	438.84	
Boys Toilet-External Walls						
Long wall	2	10.00		3.00	60.00	
Short wall	2	4.00		3.00	24.00	
Boys Toilet - Intermediate Walla						
Long wall	2	8.40		2.10	35.28	
Short wall	14	1.20		2.10	35.28	

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Deduction for Openings								
W	0.50	-28	2.00		1.50	-42.00		
V	0.50	-10	0.60		0.60	-1.80		
D	0.50	-11	1.20		2.10	-13.86		
D1	0.50	-7	0.70		2.10	-5.15		
	Sqm				Total Qty	**1129.24**	441.38	498417.86
Basic Rate	321.00							
Add Formwork, Centering & Scaffolding @ 25% of finished rate	80.25							
Sub Total	401.25							
Area Weightage @ 10%	40.13							
Total	441.38							

46 Providing 12 mm cement plaster finished with a floating coat of neat cement of mix :1:3 (1 cement: 3 fine sand) to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. **(Internal Ceiling)**

(I. No 8.4.1, P. No-41 of PWD & IWTD, Vol-2 SR 2021-22)

GROUND FLOOR								
Slab								
Slab Area		2	24.92	8.00		398.72		
		1	32.50	8.00		260.00		
Boys Toilet		1	10.00	4.00		40.00		
Staircase								
Waist slab		1	3.76	1.20		4.51		
		2	2.01	1.20		4.82		
Steps		24	1.20	0.30		8.64		
		23	1.20		0.15	4.14		
Beam Plastering -								
RB4		2	17.16		1.43	49.08		
RB5		1	32.50		1.43	46.48		
Deduction								
Staircase		-1	5.76	4.05		-23.33		
	Sqm				Total Qty	**793.06**	387.75	307509.25
Basic Rate	282.00							
Add Formwork, Centering & Scaffolding @ 25% of finished rate	70.50							
Sub total	352.50							
Area Weightage @ 10%	35.25							
Total	387.75							

47 Providing 20 mm cement plaster of mix :1:4 (1 cement: 4 fine sand) to brick/stone masonary including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. Extra for Plastering on circular work not exceeding 6m in radius. In one coat including cost of material, labour, scaffolding etc as per specifications and as per directions of the Engineer-in-charge. **External Circular Column Plastering**

(I. No 8.3.1 & 8.14.1, P. No-41, 43 of PWD & IWTD, Vol-2 SR 2021-22)

Ground Floor								
Circular Column		18	0.72		3.60	46.80		
	Sqm				Total Qty	**46.80**	453.75	21234.85
Basic Rate	330.00							
Add Formwork, Centering & Scaffolding @ 25% of finished rate	82.50							
Sub total	412.50							
Area Weightage @ 10%	41.25							
Total	453.75							

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48 Finishing walls with water proofing cement paint of required shade :New work (Two coats applied @ 4.84 kg/10 m²) to give an even shade after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-incharge. **External wall painting**

(I. No 8.28, P. No-45 of PWD & IWTD, Vol-2 SR 2021-22)

GROUND FLOOR

Qty same as External Plastering vide item No. 22 & 25			712.93		
Consider 60% of the Qty	Sqm	Total Qty	**427.76**	90.75	38819.07
Basic Rate	66.00				
Add Formwork, Centering & Scaffolding @ 25% of finished rate	16.50				
Sub total	82.50				
Area Weightage @ 10%	8.25				
Total	90.75				

TERRACE

Qty same as External Plastering vide item No. 22			163.04		
Consider 60% of the Qty	Sqm	Total Qty	**97.82**	91.66	8966.03
Basic Rate	66.00				
Add lift charges @ 1% per floor	0.66				
Add Formwork, Centering & Scaffolding @ 25% of finished rate	16.67				
Sub total	83.33				
Area Weightage @ 10%	8.33				
Total	91.66				

49 Finishing walls with textured exterior paint of required shade: New work (Two coats applied @ 3.28 kg/10 m²) over and including priming coat of exterior primer applied @ 2.20 kg/10m2 to give an even shade after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-incharge.

External wall painting

(I. No 8.29, P. No-45 of PWD & IWTD, Vol-2 SR 2021-22) Item No. 8.29

GROUND FLOOR

Qty same as External Plastering vide item No. 22 & 25			712.93		
Consider 40% of the Qty	Sqm	Total Qty	**285.17**	286.00	81559.26
Basic Rate	208.00				
Add Formwork, Centering & Scaffolding @ 25% of finished rate	52.00				
Sub total	260.00				
Area Weightage @ 10%	26.00				
Total	286.00				

TERRACE

Qty same as External Plastering vide item No. 22			163.04		
Consider 40% of the Qty	Sqm	Total Qty	**65.21**	288.86	18837.72
Basic Rate	208.00				
Add lift charges @ 1% per floor	2.08				
Add Formwork, Centering & Scaffolding @ 25% of finished rate	52.52				
Sub total	262.60				

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Area Weightage @ 10%	26.26						
Total	288.86						

50 Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete as per specifications and as per directions of Engineer incharge. **(Internal + Ceiling Painting)**

(I. No 8.51, P. No-50 of PWD & IWTD, Vol-2 SR 2021-22)

GROUND FLOOR

Qty same as Internal Plastering vide item No. 23 & 24	Sqm				Total Qty	1922.30	114.13	219382.44
Basic Rate	83.00							
Add Formwork, Centering & Scaffolding @ 25% of finished rate	20.75							
Sub total	103.75							
Area Weightage @ 10%	10.38							
Total	114.13							

51 Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade :Two coats on new work after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.

(I. No 8.39, P. No-48 of PWD & IWTD, Vol-2 SR 2021-22)

GROUND FLOOR

Qty same as Internal Plastering vide item No. 23 & 24	Sqm				Total Qty	1922.30	130.63	251100.39
Basic Rate	95.00							
Add Formwork, Centering & Scaffolding @ 25% of finished rate	23.75							
Sub total	118.75							
Area Weightage @ 10%	11.88							
Total	130.63							

52 Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ m2 including grouting the joints with white cement and matching pigments etc., complete **Size of Tile 600x600 mm**

(I. No 9.12.2 P. No-60 of PWD & IWTD, Vol-2 SR 2021-22)

GROUND FLOOR

Class Room		10	5.30	8.00		424.00		
Corridor passage		2	19.16	2.00		76.64		
Skirting		1	32.50	2.00		65.00		
Class Room		20	5.30		0.10	10.60		
Staircase		20	8.00		0.10	16.00		
Tread		24	1.20	0.30		8.64		
Riser		25	1.20		0.15	4.50		
Landing		2	1.20	1.20		2.88		
	Sqm				Total Qty	608.26	1207.80	734656.43
Basic Rate	1,098.00							
Area Weightage @ 10%	109.80							
Total	1,207.80							

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53 Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/m2 including pointing

(I. No 9.9 P. No-60 of PWD & IWTD, Vol-2 SR 2021-22)

FIRST FLOOR							
Boys Toilet		1	10.00	4.00		40.00	
Deductions-Intermediate Wall							
Long wall		-1	2.80	0.15		-0.42	
Short wall		-7	1.20	0.15		-1.26	
					Total Qty	38.32	684.38	26225.29
	Sqm						
Basic Rate	616.00						
Add lift charges @ 1% per floor	6.16						
	622.16						
Area Weightage @ 10%	62.22						
Total	684.38						

54 Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to steel windows by welding.

(I. No 11.34A P. No-85 of PWD & IWTD, Vol-2 SR 2021-22)

GROUND FLOOR							
W		28	2.00		1.50	84.00	
V		10	0.60		0.60	3.60	
					Total Qty	1839.60	144.10	265086.36
Consider 21 Kg/ Sqm	Kgs						
Basic Rate	131.00						
Area Weightage @ 10%	13.10						
Total	144.10						

55 Providing & fixing of 2-track x 2-panel sliding windows made out of multi chambered UPVC (Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPE(Thermo Plastic Elastomer) and lead free, gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the window frame. The outer frame having an overall size of 50mm width x 42mmheight with reinforcement of 1mm thickness and Sash with overall size of 31mm X 57mm with Gi reinforcement of 1mm for the frame and 1.5 mm for the sash. Coextruded Glazing bead for fixing of glass shall be of size 21.5mm x 9.5 mm. Windows shall be provided with 5mm plain float glass, standard hardware& single point locking system with touch lock. Wall thickness of frame & sash shall be of 1.8+-0.2 mm. Maximum possible size – 1519mm x 1519mm. (The cost is inclusive of all fixtures and separate charges for minor T&P's shall not be made)

(I. No 12.86 P. No-110 of PWD & IWTD, Vol-2 SR 2021-22)

GROUND FLOOR							
W		28	2.00		1.50	84.00	
	Sqm				Total Qty	84.00	6426.20	539800.80
Basic Rate	5,842.00						
Area Weightage @ 10%	584.20						
Total	6,426.20						

56 Providing & fixing of louvered ventilator made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPE(Thermo Plastic Elastomer) and lead free with gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the ventilator frame. The frame having overall size of 39mm x 39mm with GI reinforcement of 1mm thickness. Louver clip in Aluminium (powder coated in white) will be used on the frame along with plastic parts for fixing the 4 mm pin head glass. Wall thickness of frame shall be 2mm.Maximum possible size – 1000mm x 1000mm.(The cost is inclusive of all fixtures and separate charges for minor T&P's shall not be made)fixtures and separate charges for minor T&P's shall not be made)

(I. No 12.85 P. No-110 of PWD & IWTD, Vol-2 SR 2021-22)

Boys Toilet							
V		10	0.60		0.60	3.60	
	Sqm				Total Qty	3.60	5357.00	19285.20

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Basic Rate	4,870.00
Area Weightage @ 10%	487.00
Total	5,357.00

57 Providing Honne wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, usage charges complete as per specifications.

(I. No 12.11 P. No-99 of PWD & IWTD, Vol-2 SR 2021-22)

GROUND FLOOR								
D		10	6.60	0.075	0.15	0.74		
						0.74	99432.30	73828.48

	Cum
Basic Rate	90,393.00
Area Weightage @ 10%	9,039.30
Total	99,432.30

58 Providing and fixing in position fully panelled Mathi/Nandi wood shutters for doors with stiles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and stiles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, usage charges complete as per specifications. (excluding cost of fixtures)

(I. No 12.15 P. No-100 of PWD & IWTD, Vol-2 SR 2021-22)

GROUND FLOOR								
D		10	1.20		2.10	25.20		
						25.20	5011.60	126292.32

	Sqm
Basic Rate	4,556.00
Area Weightage @ 10%	455.60
Total	5,011.60

59 Fixing of door frame in an existing opening including embedding frame in floor and walls after cutting masonry for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and down size granite metal painting two coats of coal tar to sides of frame, making good the damages to walls and floor as required and disposal of the debris with lead upto 50 m. including cost of materials, labour charges, complete as per specifications.(V-II, I.No 12.51, Page No-105 of PWD SR 2021-22)

(I. No 12.51 P. No-105 of PWD & IWTD, Vol-2 SR 2021-22)

GROUND FLOOR								
D		10				10		
						10	1633.50	16335.00

	Nos
Basic Rate	1,485.00
Area Weightage @ 10%	148.50
Total	1,633.50

60 Providing & fixing factory made PVC Door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet metered cut at corners & jointed 2 No.s of 150mm long brackets of 15x15mm M.S Square tube, the entire door frame to be reinforced with 19x19mm M.S Square tube of 19 gauge. The door frame to be fixed to the wall using M.S. Screws of 65/80mm size complete as per manufacturers specification & direction of Engineer-in-charge.

(I. No 12.54 P. No-105 of PWD & IWTD, Vol-2 SR 2021-22)

Boys Toilet								
D1		7	5.60		0.10	3.92		
						3.92	522.50	2048.20

	Sqm
Basic Rate	475.00
Area Weightage @ 10%	47.50
Total	522.50

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61 Providing & fixing 30mm thick factory made rigid foam Panelled Door Shutters made from M.S. tube of 19 gauge thickness, size 19x19mm for stiles and 15x15mm for top & bottom rails, covered with heat moulded PVC C channel of 5mm thick sheet & 30 x 50mm wide to form stiles & 5mm thick & 75mm wide PVC Sheets for top rail, lock rail & bottom rail on either side & 5mm thick 20mm wide PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet fitted in the M.S. Frame, Sealed to the stiles & rails with 5x30mm PVC sheet beading on either side & joined together with solvent cement adhesive etc., Complete as per manufacturers specification & direction of Engineer-in-charge fixed to frames with 3 nos of 75 mm Aluminium hinges.

(I. No 12.53 P. No-105 of PWD & IWTD, Vol-2 SR 2021-22)

Boys Toilet							
D1		7	0.70		2.10	10.29	
						10.29	315.70	3248.55
	Sqm						
Basic Rate	287.00						
Area Weightage @ 10%	28.70						
Total	315.70						

62 Applying priming coat: With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood) including preparing the surface after thorougly cleaning oil, grease, dirt and foreign matter, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.

(I. No 8.34.1 P. No-47 of PWD & IWTD, Vol-2 SR 2021-22)

GROUND FLOOR							
D	2.2	10	1.20		2.10	55.44	
						55.44	45.10	2500.34
	Sqm						
Basic Rate	41.00						
Area Weightage @ 10%	4.10						
Total	45.10						

63 Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer. Using M.S. angels 40x40x6 mm for diagonal braces including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge.

(I. No 11.5.1 P. No-75 of PWD & IWTD, Vol-2 SR 2021-22)

Boys Toilet							
D		1	1.20		2.10	2.52	
						2.52	4026.00	10145.52
	Sqm						
Basic Rate	3,660.00						
Area Weightage @ 10%	366.00						
Total	4,026.00						

64 Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two coat applied @ 0.90 ltr/10 m² over an under coat of primer applied @ 0.80 ltr/10 m² of approved brand and manufacture including preparing the surface after thorougly cleaning oil, grease, dirt and foreign matter, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.

(I. No 8.33.3 P. No-47 of PWD & IWTD, Vol-2 SR 2021-22)

Boys Toilet							
D	2.20	1	1.20		2.10	5.54	
						5.54	116.60	646.43
	Sqm						
Basic Rate	106.00						
Area Weightage @ 10%	10.60						
Total	116.60						

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65 Providing and laying water proofing treatment to the Roof with PU based single component elastomeric pure polyurethane based coating on New terrace/Chajjas/Sunken portion of WC:Bathroom, cold applied PU waterproofing membrane that is highly elastic with elongation greater than 400% and tensile strength greater than 2MPa as per ASTM D412. The water proofing membrane to be applied in 2coats @ 1.6kg per m2 to achieve final DFT (dry film thickness) of 1mm including prime coat of epoxy primer @150 g per m2 and protection with 120gsm Geo-textile over the waterproofing membrane. The finished cost to include surface preparation, making coving at Junction, Bore Packing, treatment of construction joints completely as per specification & with a 10 years warranty on product & work from certified manufacturers as per the direction of the Engineer In charge.

(I. No 15.1 P. No-133 of PWD & IWTD, Vol-2 SR 2021-22)

TERRACE							
		2	24.92	8.00	398.72		
		1	32.50	8.00	260.00		
Boys Toilet		1	10.46	4.46	46.65		
	Sqm				**705.37**	**819.50**	**578052.03**
Basic Rate	745.00						
Area Weightage @ 10%	74.50						
Total	819.50						

66 Providing & Fixing Fixtures

Aluminum tower bolts

(I. No 033 P. No-A-13 of PWD & IWTD, Vol-2 SR 2021-22)

D1		14			14.00		
D		10			10.00		
	Nos.				**24.00**	**60.90**	**1461.60**
Basic Rate	58.00						
GST @ 5%	2.90						
Total	60.90						

Hold Fast

(I. No 285 P. No-A-21 of PWD & IWTD, Vol-2 SR 2021-22)

	Each	54			**54.00**	**33.60**	**1814.40**
Basic Rate	32.00						
GST @ 5%	1.60						
Total	33.60						

SS Screws #8x19

(I. No 548 P. No-A-28 of PWD & IWTD, Vol-2 SR 2021-22)

	Each	540			**540.00**	**6.30**	**3402.00**
Basic Rate	6.00						
GST @ 5%	0.30						
Total	6.30						

PLUMBING WORK

67 Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:White Vitreous China Wash basin size 630x450 mm with a pair of 15mm C.P. brass pillar taps.

(I. No 14.7.1 P. No-124 of PWD & IWTD, Vol-2 SR 2021-22)

	Each	3			**3.00**	**2781.90**	**8345.70**
Basic Rate	2,529.00						
Area Weightage @ 10%	252.90						
Total	2,781.90						

68 Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required: White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests

(I. No 14.1.1 P. No-123 of PWD & IWTD, Vol-2 SR 2021-22)

	Each	7			**7.00**	**4670.60**	**32694.20**
Basic Rate	4,246.00						
Area Weightage @ 10%	424.60						

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	Total	4,670.60				
69	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required : One urinal basin with 5 litre white P.V.C. automatic flushing cistern					
	(I. No 14.4.1 P. No-123 of PWD & IWTD, Vol-2 SR 2021-22)	Each	10	10.00	3889.60	38896.00
	Basic Rate	3,536.00				
	Area Weightage @ 10%	353.60				
	Total	3,889.60				
70	Providing and fixing brass stop cock of approved quality : 20 mm nominal bore					
	(I. No 13.3.2 P. No-115 of PWD & IWTD, Vol-2 SR 2021-22)	Nos	20	20.00	379.50	7590.00
	Basic Rate	345.00				
	Area Weightage @ 10%	34.50				
	Total	379.50				
71	Providing and fixing brass bib cock of approved quality : 15mm nominal bore					
	(I. No 13.2.1 P. No-115 of PWD & IWTD, Vol-2 SR 2021-22)	Nos	25	25.00	358.60	8965.00
	Basic Rate	326.00				
	Area Weightage @ 10%	32.60				
	Total	358.60				
72	Providing and fixing Brass full way valve gate with C.I. wheel of approved quality (screwed end) : 25 mm nominal bore.					
	(I. No 13.4.1 P. No-115 of PWD & IWTD, Vol-2 SR 2021-22)	Each	6	6.00	580.80	3484.80
	Basic Rate	528.00				
	Area Weightage @ 10%	52.80				
	Total	580.80				
73	Providing and fixing Brass full way valve gate with C.I. wheel of approved quality (screwed end) : 40 mm nominal bore.					
	(I. No 13.4.3 P. No-115 of PWD & IWTD, Vol-2 SR 2021-22)	Each	10	10.00	749.10	7491.00
	Basic Rate	681.00				
	Area Weightage @ 10%	68.10				
	Total	749.10				
	ELECTRICAL WORKS					
	PART-A INTERNAL WIRING					
	Point wiring					
	Point wiring using Copper wire without Switch.					
74	Supplying and wiring adopting loop system in existing pvc conduit/casing caping using 1100v grade,COPPER conducter flexible multistrand FRLS PVCinsulated,2x1.5Sq.mm Cable confirming to the GTP without switch,the other end of the wire shall be terminated with sufficient loose length in a wood/PVC round block complete for each outlet. (P.No.2 ,Item No 2.1 PWD Electrical SR-2022-23)					
	GROUP A					
a	2.1.1)Short point upto 3Mtr from tapping point to out let via switch box	No	10	10.00	276.00	2760.00
b	2.1.2)Medium point above 3Mtr upto 6Mtr from tapping point to out let via switch box	No	20	20.00	386.00	7,720.00

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c	2.1.3)Long point above 6Mtr upto 10Mtr from tapping point to out let via switch box	No	6		6.00	567.00	3,402.00
d	2.1.4)Two outlet in a row,above 3Mtr upto 6Mtr from tapping point to out let	No	2		2.00	721.00	1,442.00
e	2.1.5)Three outlet in a row, above 6Mts upto 10Mtr from tapping point to out let via	No	2		2.00	1,054.00	2108.00
	METAL BOX						
75	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall. (P.No.5 ,Item No 3.4 PWD Electrical SR-2022-23)						
a	3.4.1) 1-3Way	Each	10		10.00	123.00	1230.00
b	3.4.2)4-5Way	Each	6		6.00	138.00	828.00
c	3.4.3)6 Way	Each	4		4.00	212.00	848.00
d	3.4.4)8Way	Each	6		6.00	250.00	1,500.00
e	3.4.5) 10-12Way	Each	10		10.00	325.00	3250.00
	Deep juction box						
76	Suppling and fixing PVC/metal conduit deep juction boxes.(P.No.1 ,Item No 1.5 PWD Electrical SR-2022-23)						
a	1.5.1)19/20mm deep juction box	Each	30		30.00	49.00	1470.00
b	1.5.2) 25mm deep juction box	Each	30		30.00	51.00	1,530.00
c	1.5.3) 32mm deep juction box	Each	10		10.00	69.00	690.00
d	1.12)Suplay and fixing Metal Fan Box with Round Hook (P.No.2, Item No 1.12 PWD Electrical SR-2022-23)	Each	20		20.00	163.00	3,260.00
77	Supplying and mounting 2 nos of 2 way 6amps flush type switches either surface /flush mounted on exisinting gang box or in 4mm thick plastic sheet and mounted on a flush mounted wooden box and wiring as required . (P.No.5,	Each	5		5.00	162.00	810.00
	Switch mounting polycorbonate plate						
78	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293.. (P.No.5, Item No 3.6 PWD Electrical SR-2022-23)						
	'A' Group						
a	3.6.1) 6A mps one way	Each	60		60.00	88.00	5280.00
b	3.6.2) 6A mps Two way	Each	10		10.00	152.00	1,520.00
c	3.6.4) Stepped fan regulator.	Each	20		20.00	313.00	6,260.00
d	3.6.8) 16A mps one way	Each	10		10.00	249.00	2,490.00
e	3.6.11) 6/16A aps universal sc	Each	15		15.00	249.00	3,735.00
f	3.6.12) tv/telephone socket	Each	2		2.00	147.00	294.00
g	3.6.13) rj45/i.o outlet cat 6	Each	2		2.00	211.00	422.00
	Modular switch/Socket						
79	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293.. (P.No.5, Item No 3.6 PWD Electrical SR-2022-23)						
	Using Group 'A' materials						
a	3.6.3) 6A mps 3way socket.	Each	10		10.00	162.00	1620.00
b	3.6.8) 16Amps one way switch	Each	5		5.00	249.00	1,245.00
c	3.6.11) 6/16Amps univeral socl	Each	14		14.00	249.00	3,486.00
d	3.6.12) TV/Telephone socket	Each	12		12.00	147.00	1,764.00

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	Concealed Conduit System						
80	**Concealed Conduit System:** Supplying .... Mm dia 2mm2.5mm Thick heavy gauge PVC conduit pipe with suitable size bends, metal/PVC junction boxes adhesive paste etc... and running before concreting th eslab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be convered using PVC end enclosures. run with 18SWG GI fish wire wherever necessary. (P.No.1, Item No 1.2 PWD Electrical SR-2022-23)						
a	1.2.1) 19/20mm dia 2mm thik	Per Mtr	750		750.00	61.00	45750.00
b	1.2.2) 25mm dia 2mm thik	Per Mtr	1100		1100.00	70.00	77,000.00
c	1.2.3) 32mm dia 2.5mm thik	Per Mtr	45		45.00	93.00	4185.00
	Groove cutting:						
81	**Groove cutting:** Supplying .... Mm dia 2mm2.5mm Thick heavy gauge PVC conduit pipe with suitable size bends, metal/PVC junction boxes adhesive paste etc... by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary. (P.No.1, Item No 1.3 PWD Electrical SR-2022-23)						
a	1.3.1) 19/20mm dia 2mm thik	Per Mtr	650		650.00	75.00	48,750.00
b	1.3.2) 25mm dia 2mm thik	Per Mtr	300		300.00	80.00	24,000.00
c	1.3.3) 32mm dia 2.5mm thik	Per Mtr	10		10.00	105.00	1050.00
	Wiring for lighting /power circuit						
82	Wiring for lighting /power circuit using one of PVC insulated 1100v grade,multis and Copper conductor single core cable in open or consealed system of wiring. (P.No.3, Item No 2.3 PWD Electrical SR-2022-23)						
	I Group A Materials.						
a	2.3.2) 1.5 sqmm	Per Mtr.	900		900.00	26.00	23400.00
b	2.3.3) 2.5 sqmm	Per Mtr.	1300		1300.00	40.00	52,000.00
c	2.3.4) 4 sqmm	Per Mtr.	600		600.00	59.00	35,400.00
d	2.3.3) 6 sqmm	Per Mtr.	200		200.00	87.00	17400.00
	MCB & DBs						
83	Supplying and fixing regular MCB distribution boards on wall/ woodboard /flush mounting required clamps,bolts,nuts etc.. with provision for fixing suitable type capacity MCB's single phase /3 phase /single door with powder coated painting etc., complete. (P.No.13, Item No 5.18 PWD Electrical SR-2022-23)						
	II. Double Door						
a	5.18.9) 12Way SP & N	Each	1		1.00	2,067.00	2067.00
	1) Group 'A'						
	III. Double Door						
b	5.18.11) 4Way TP & N	Each	1		1.00	3,053.00	3,053.00
84	Supplying and fixing and wiring Earth Leakage Miniature Circuit Breaker [ELMCB] 240/450V up 300mA sensitivity on exsiting wood/panel board.(P.No.13, Item No 5.20 PWD Electrical SR-2022-23)						
a	5.20.2)32-40 Amps 2 Pole	Each	1		1.00	2,652.00	2652.00
b	5.20.3)32-40 Amps 4 Pole	Each	2		2.00	2,826.00	5,652.00
85	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and wiring complete as required.(P.No.13, Item No 5.17 PWD Electrical SR-2022-23)						
a	5.17.1)6-32Amps SP 1 Group 'A'	Each	20		20.00	523.00	10460.00
b	5.17.4)6-32Amps DP	Each	3		3.00	1,103.00	3309.00
	Earthing						
86	Supplying and running of GI/Copper strips for grounding connections, using necessary fixing materials as required. Item No 6.3						
	GI strip						
a	6.3.1)25x3mm(old SR)	Per Mtr.	60		60.00	75.00	4500.00
	Part- B:- Light Fixtures						

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87	Supply an fixing of ...feet pvc batten with integrated led tube quality diffuser with life of 25000 burninng hours & 70% lumen maintance with CRI>80. power input :220-240V @ 50 hz & power factor >.9 along with CE approved drivers. 2 years warranty. (P.No.34, Item No 11.3 PWD Electrical SR-2022-23)						
a	11.3.1)LED light fitting 1x2' - 9/10w	Each	20		20.00	496.00	9920.00
b	11.3.2)LED light fitting 1x4' - 20/22w	Each	100		100.00	740.00	74,000.00
c	11.3.3)LED light fitting 1x4' - 36/40w	Each	10		10.00	1,197.00	11,970.00
88	Supplying exhaust fan of 1440 RPM of 300 mm (12") size with bracket blades complete for light duty suitable for operate of 230V 50Hz, AC Supply.(P.No.22, Item No 6.1 PWD Electrical SR-2022-23)						
	a) Group 'A'	Each	6		6.00	1,542.00	9252.00
89	Supplying exhaust fan of 1440 RPM of 300 mm (12") size with bracket blades complete for light duty suitable for operate of 230V 50Hz, AC Supply..(P.No.22, Item No 6.2 PWD Electrical SR-2022-23)						
	6.2.2).15" Sweep (450 mm)	Each	1		1.00	4,126.00	4126.00
90	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374-1979 and with double bail bearing system..(P.No.22, Item No 6.3 PWD Electrical SR-2022-23)						
	6.3.1) 48" Sweep (1200mm)						
a	Regular model (Khaitan, Crompton Greaves, Orient, Polar, Bajaj, Usha, Havells, Almonard)	Each	20		20.00	2,085.00	41700.00
	Part - D Bypass Panel						
	Main Panel						
91	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Microprocessed release and Earth Fault as per IS-13947. (Icu = Ics)(34/9). .(P.No.12, Item No 5.14 PWD Electrical SR-2022-23)						
	THREE POLE						
	1.Group A						
a	5.14.3)160Amps 25kA	Each	2		2.00	10750.00	21500.00
92	Supplying of multi function digital meter with three line back light LCD type display for voltage,Current,frequency,Power,Powerfactor,KVA,KWH,KVARsuitable for 3 Phase,4 wire LT network with IP 54 degree of protection and completely wired as required wuth communication Port and Class 0.5s accuracy. (P.No.14, Item No 5.33 PWD Electrical SR-2022-23)						
a	a)Group A	Each	2		2.00	8370.00	16740.00
93	Supplying,fixing and wiring earth leakage relay with core balanced current transformer suitable for single phase 50 Hz AC with latest microcontroller based,digital readout of percentage leakage current,programable delay/auto/manual reset facility suitable to mount on DIN rail/flush mounting on panel board. (P.No.14, Item No 5.21 PWD Electrical SR-2022-23)						
	a) Group A	Each	1		1.00	8316.00	8316.00
94	Supplying, fixing and wiring 50/5A to 400/5A 5VA Burden class 1 Current Transformer. (P.No.14, Item No 5.34 PWD Electrical SR-2022-23)						
a	a)Group A	Each	3		3.00	505.00	1515.00

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95	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and wiring complete as required.(P.No.13, Item No 5.17 PWD Electrical SR-2022-23)							
	1 Group 'A'							
a	5.17.8)40Amps TPN	Each	3			3.00	2393.00	7179.00
b	5.17.9)50-63Amps TPN	Each	2			2.00	2399.00	4,798.00
c	5.17.5)40Amps DP	Each	3			3.00	1363.00	4,089.00
d	5.17.4)6-32Amps DP	Each	2			2.00	1103.00	2206.00
96	Supplying,fixing and Fixing of Shunt trip suitable for MCCB. CBCT. (P.No.12, Item No 5.15 PWD Electrical SR-2022-23)	Each	6			6.00	1512.00	9072.00
97	Supplying .....amps rated 3phase with netural bus bar using required capacity electrolytic alluminium strips covered with heat shrinkable coloured PVC sleeve,mounted on phenolic/ERP/DMC insulator which are mounted on powder coated 40x6 mm M.S.flat frame work in existing panel board.The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts,nuts and washers etc.,complete.(P.No.15, Item No 5.40 PWD Electrical SR-2022-23)							
a	5.40.2)250 A 4 x 30 x 10 mm Aluminium Strips	RMtr	3			3.00	3078.00	9234.00
98	Fabricating supplying and mounting MS box made out 16 SWG suitable for floor/wall mounting,fully weather proof with provision for better heat dissipation, provided with hinged front cover,equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete. (P.No.15, Item No 5.42 PWD Electrical SR-2022-23)							
a	5.42.1)14SWG	Sq MM	1500			1500.00	0.43	645.00
b	5.42.2)16SWG	Sq MM	1000			1000.00	0.38	380.00
99	Supplying and fixing of LED type pannel board indicating lamp with reqired colour suitable for 220v A.C.50 Hz 12/24v D.C. (P.No.14, Item No 5.38 PWD Electrical SR-2022-23)							
a	a)Group A	Each	4			4.00	464.00	1,856.00

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Combined Estimate

Total Construction Cost	87,475,253.65
12% GST to Construction Cost	10,497,030.44
Cost towards Preparation of DPR 1%	1,000,000.00
Cost towards PMC / Third Party inspection 1%	1,000,000.00
Sub Total	99,972,284.09
Miscellaneous and rounding off	27,715.91
TOTAL	100,000,000.00

Certificate.

1 The rates adopted based on the PWD SR, Bangalore circle for year 2021-22.
2 The provisions made in the estimate are necessary and essential.
3 The workspot was inspected and work is found to be necessary.
4 The area comes within the Bruhat Bangalore Mahanagara Palike limits.

Tejus Consultants

Assistant Engineer
Yelahanka Division
BBMP Bangalore

Assistant Executive Engineer
Yelahanka Division
BBMP Bangalore

Executive Engineer
Yelahanka Division
BBMP Bangalore

Administrative Sanction for Rs. 1000.00 Lakhs
Rupees Ten Crore Only
is accorded under head P.3877
Amruth Nagarathna Extends
Registered as CE No. 96 Subject
to conditions contained in enclosed memo
No. BBMP/EE/YNK/0/AS/96/22-23 Dt. 18/08/2022

Executive Engineer

Technical Sanction
Accorded For 1000.00 Lakhs
Head of A/C P.3877
CER NO : 94 Dt: 21/6/2022

TA CE

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